Carrier Carlyle Compressor Site

New York State Superfund Site #734043

Description

This site consists of an in-ground concrete tank which had previously been used for storing acid and alkaline cleaners that contained an E.P. Toxic chromium material.

Site Description from the Environmental Site Remediation Database:

Carrier Carlyle Compressors produced reciprocating compressors as components for air conditioners at this facility in the northern part of the Town of Dewitt. The 225,000 square foot manufacturing building was constructed in the late 1960s. Manufacturing processes involved the use of various chlorinated organic solvents including trichloroethylene and 1,1,1-trichloroethane. An unpaved area located in the southwest corner of the back lot was used to store compressor parts and various drums. Spills or leaks from the drums stored in this area resulted in the incidental release of contaminants to the ground surface and the shallow groundwater aquifer. The volume of materials released over time produced a contaminant plume that eventually spread to nearby Sanders Creek, a Class "D" stream. An investigation completed by Carrier in 1989 confirmed the presence of groundwater contamination beneath the unpaved area at levels exceeding Part 703 standards. Subsequent well installation and sampling found that the plume of contamination covered an area about 260,000 square feet in size and was confined to the southwest corner of the property. The contamination is restricted to the upper fill material above the relatively impervious native soils. Two monitoring wells, number 1 and number 106, had the highest levels of contamination at the site in January 0f 1998. Contaminants included chloroethane at 7,600 ppb; 1,1-dichloroethane at 8,100 ppb; vinyl chloride at 3,500 ppb; and 1,1,1-trichloroethane at 84,000 ppb. Carrier built and began operating a combined pump and treat system and a soil vapor extraction (SVE) system under a IRM to remediate the identified groundwater contamination. A Remedial Investigation/Feasibility Study (RI/FS) was completed in February of 1999 and a Record of Decision was signed on March 30, 1999. The SVE system has been shut down and an operation,

maintenance and monitoring program continues at this site. The site is also currently being investigated for soil vapor impacts.

Environmental Issues

Localized groundwater contamination in contravention of Part 703 standards. Recent sampling suggests that the concentrations of halogenated organics have remained relatively consistent. They are not believed to be leaving the site. The site is in the middle of a secure 85-acre production facility. There may be some residual groundwater contamination; however, the contaminated groundwater is being collected and treated and is not believed to be leaving the site. All businesses and residences in the area are served by Public water supplies. The tank has been removed and the site completely paved over. There are no exposures to site contaminants. Carrier and the Department are currently evaluating the historical impact of PCBs from the site migrating into Sander's Creek and the possibility of indoor air quality concerns in on-site buildings.

What's being done to address the problem?

The tank was excavated and removed in May of 1988. A thorough groundwater sampling program was conducted in the area. Analytical results confirmed the presence of halogenated organics. This site is one of several Solid Waste Management Units (SWMUs) at the Carrier, Thompson Road Plant that are being addressed as part of an ongoing, site-wide RCRA Corrective Action program. Recent sampling suggests that the concentrations of halogenated organics have remained relatively consistent in the area of the SWMUs. However, the contaminated groundwater is being collected and treated and is not believed to be leaving the site. As part of the RCRA Corrective Action, Carrier will evaluate appropriate remedial technologies to reduce the mass of this contamination if any are needed. The tank has been removed and the site completely paved over, limiting exposures to site contaminants. Based upon the findings of the corrective measures study (CMS) there could be several areas where additional investigations, monitoring, or corrective measures must be completed. The CMS will look at groundwater, storm sewer bedding, soil vapor/indoor air, and Sanders creek.

List of site Contaminants of Concern

CAS #	Contaminant Name	Contaminated Media	More Information
71-55-6	1,1,1-TRICHLOROETHANE	Ground Water	ATSDR Profile
108-88-3	TOLUENE	Ground Water	ATSDR Profile

79-01-6	TRICHLOROETHYLENE	Ground Water	ATSDR Profile

Summary of Project Completion Dates

Site Name: Carrier-Carlyle Compressors
Site Code: 734068
Program: State Superfund Program
Locality: DEWITT
DEC Region: 7

Operable Unit: 01 – REMEDIAL PROGRAM

Project Name	Completion Date
Remedial Investigation	03/01/1999

Operable Unit: 01A- IRM Harbor Brook Sampling

Project Name	Completion Date
Remedial Design	09/01/1997
Remedial Action	01/01/1998

Contacts for more information and comments

Documents for this site are available for public inspection at:
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7016
Phone: (518) 402-9676
Hours: M – Fri, 8:30 a.m. – 4:45 p.m.
Please call for an appointment

New York State Department of Environmental Conservation, Region 7
615 Erie Blvd. West
Syracuse, NY 13204-2400
Phone: (315) 426-7400
Hours: M – Fri, 8:30 a.m. – 4:45 p.m.
Please call for an appointment

Atlantic States Legal Foundation Depository Library
658 West Onondaga Street
Syracuse NY 13204-3711
Phone: 315-475-1170
Fax: 315-475-6719
http://www.aslf.org/

Onondaga County Public Library
Central Branch at the Galleries
447 South Salina Street
Syracuse, NY 13202
Phone: (315) 435-1800
Hours: M, Th, Fri, Sat, 9:00 a.m. – 5:00 p.m.; Tu, W, 9:00 a.m. – 8:30 p.m.

Leave a Reply

You must be logged in to post a comment.